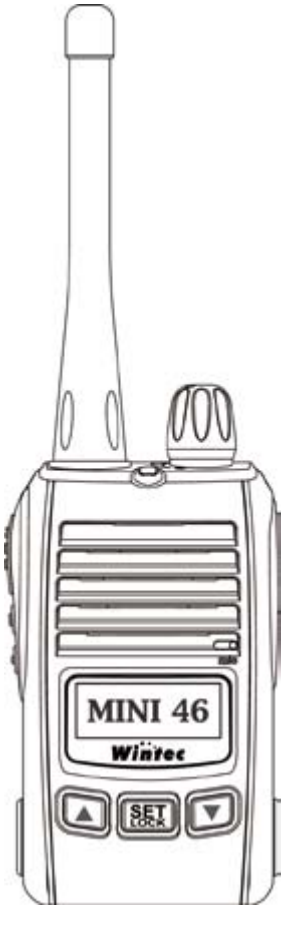
Wintec

MINI46

User's Manual



MINI46

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Thank you for purchasing LP-Mini 46 ultra compact handhold FM transceiver manufactured by Wintecronics. Based on the ever-changing innovative technology, we have been able to develop many different wireless products that have gained widely consumers' attention. Besides our appreciation for your love of our products, we even wish you to be attentive to new product information. Your precious comment will be appreciated by us.

Please read through the manual carefully to learn whole features of this model.

Certificate Approval

CE0681

Applicable model for this manual

LP-MINI46

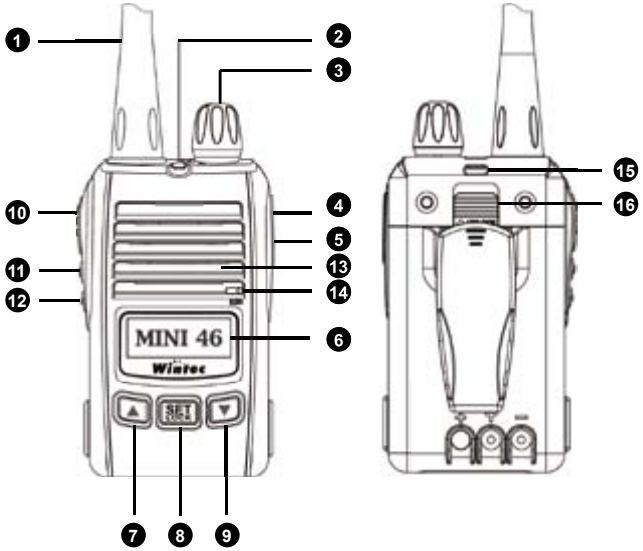
Safety warning

Consumers need to understand clearly about safety in the use of product Turn off power before fueling or parking at the gas station.

Features

1. Wide frequency coverage that suits application in many countries.
2. 32 programmable channels and 2 programming keypads
3. Internal TCXO resonator to enhance freq. stability
4. Digitally designed to ensure stable quality
5. Extra-small size in rugged case, compliant with US military environment test
6. Signal light indicator ON/OFF
7. Independent CTCSS/DCS
8. Narrow band (2.5K)/ Wide band (5K) programmable options
9. 9 steps of VOX (voice-activated feature)
10. Multiple programmable functions, Programmable PRI / SOS / SCAN channel function

Appearance Introduction



1. Antenna (SMA socket)
2. LED Indicator
3. Power Switch / Volume Control
4. External Mic. Jack
5. Data socket (mini USB)
6. LCD display
7. Up button
8. Set button
9. Down button
10. PTT button (Push to talk)
11. ..Monitor button
12. Backlight button
13. Speaker
14. Mic
15. Lanyard hole
16. Belt Clip

Appearance Introduction

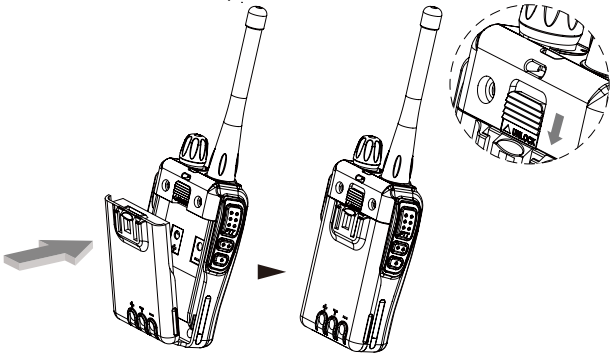
Functions	
1. Antenna (SMA socket)	Provide attached SMA rubber flex Antenna or other 50Ω impedance Antenna. Note It is harmful to radio if Antenna is not connecting or is connected wrong one.
2. LED Indicator	LED Indicator turns on red when transmitting. LED Indicator turns on green when SQL.
3. Power Switch / Volume Control	Rotate the power switch / volume control knob clockwise to switch power ON. When the click sound of switch and the melody is heard, the transceiver is powered. Adjust volume appropriately. Note Avoid outburst of sound harmful to ears. Rotate the power switch / volume control knob counterclockwise to switch power OFF. When the click sound of switch is heard, transceiver's power is turned off.
4. External Mic. Jack	Turn to lowest volume if external Mic./speaker is used, then adjust appropriately. Note Avoid outburst of sound harmful to ears.
5. Data socket (mini USB)	Data socket (mini USB): provide optional accessories and computer interface.
6. LCD display	It appears transceiver's situation.
7. Up button	Under menu item, it is a select button. Press temporarily up key (▲) into scan mode.
8. Set button	Under menu item, press temporarily set key is locked.
9. Down button	Under menu item, it is a select button. Press temporarily down key (▼) into scan mode.
10. PTT button (Push to talk)	Press PTT button of the transceiver for transmission. Release PTT button for receiving.
11. ..Monitor button	Press monitor button to turn off SQL temporary and to receive weak signal, due to distance.
12. Backlight button	Press backlight button to turn on backlight. (it will turn OFF automatically after 8 sec. or press the button again to turn off)
13. Speaker	
14. Mic	
15. Lanyard hole	
16. Belt Clip	Push up battery latch to release battery back.

Accessories Supplied with the Mini-46

1. Radio Unit	1PCS
2. SMA rubber flex antenna	1PCS
3. Battery	1PCS
4. Clip	1PCS
5. Rapid Charger	1PCS
6. MINI-46 quick guide	1PCS

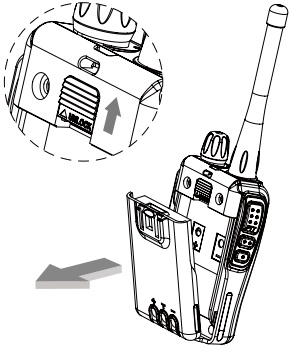
To Install

Place battery pack into battery compartment, when the click sound of switch, it will lock into compartment.



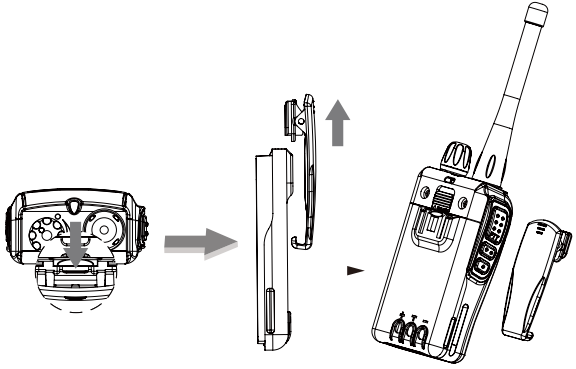
To Remove

1. holding radio in one hand, push up battery latch
2. slide battery pack backwards



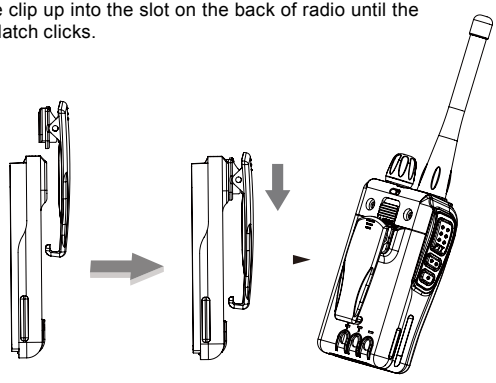
To remove belt clip

Lift belt clip lock tab up, then gently pull the belt clip up.



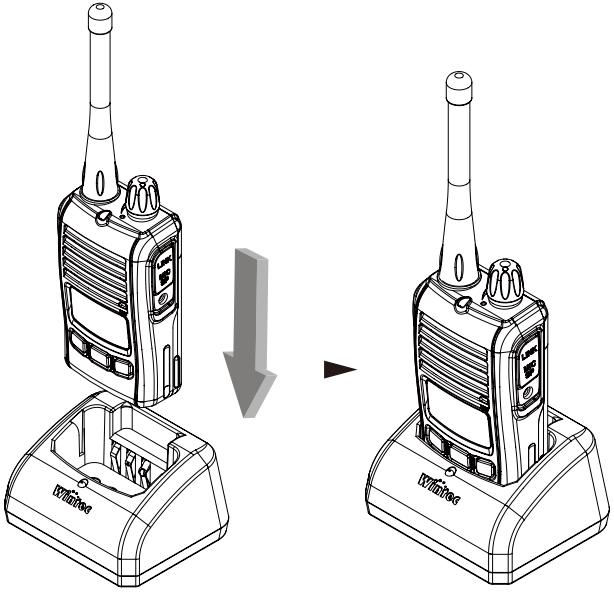
To install belt clip

Slide the clip up into the slot on the back of radio until the belt clip latch clicks.



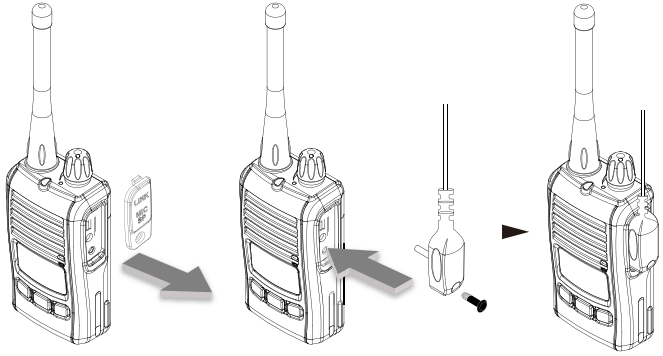
Battery charging

1.Green On: Charger is powered by the adapter.
2.Turns Red: Battery is charging.
3.Flash Green Light: Battery is fully charged.
4.Flash Red Light: Battery failed. (2W Radio / Battery)
5.Flash Red & Green Light: Battery failed. (4W Radio / Battery)



Use of external MIC / Speaker

1. Remove accessory jack cover
2. Insert accessory jack
3. Fix accessory with the screws



Note Rotate the Power Switch / Volume knob slowly to avoid outburst of sound harmful to ears.

Operation Guide

The battery needs to be charged fully before using radio. The radio has a battery voltage icon to show on LCD screen.

1. **Power On/Off:** Rotate the power switch / volume control knob clockwise to switch power ON. When the click sound of switch and the melody is heard, the transceiver is powered on. Note: avoid outburst of sound harmful to ears. Rotate the Power switch/ volume control knob counterclockwise to switch power OFF. When the click sound of switch is heard, transceiver's power is turned off.

2. **Receiving / Transmitting:** Rotate the Channel Control knob to the desired channel. Before press and hold PTT button please check LED indicator turns on green or not. The LED indicator turns on red during transmission. Talk to the speaker microphone from a distance of 10 cm. Release PTT button for the transceiver for receiving. During receiving, LED indicator turns on green.

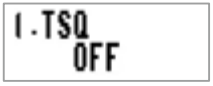
3. **Adjusting Volume:** For the adjustment of volume, rotate the Power / Volume control knob in clockwise direction to increase volume. Rotate Power / Volume knob counterclockwise to decreases volume. Rotate the power switch/volume knob slowly to avoid outburst of sound harmful to ears. Press monitor button to turn off SQL temporary. Then, rotate the volume control knob in clockwise slowly to an appropriate level.
   Note Avoid outburst of sound harmful to ears.

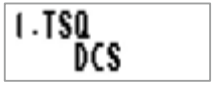
4. **Channel Adjustment:**
   Momentarily press ▲▼ to select channel.
   Temporarily press ▲▼ to start scanning of channel.
   While receiving signal, release PTT scan mode.
   Note Avoid outburst of sound harmful to ears.

Manu items

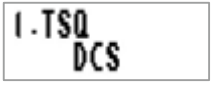
No.	Items	Contents	Factory Setting	Note
1	TSQ	Tone Squelch Type	OFF	OFF / T / CTCSS / DCS
2	CTCSS	CTCSS frequency	1(67.0Hz)	1(67.0Hz)~51(254.1Hz)
3	DCS	DCS CODE	023	023~754
4	TX POWER	TX power Adjustment	Low	High / Low
5	VOX	Voice-Activate System	OFF	OFF / Level1~ Level 9
6	Mic. Gain	Mic. Gain	Low	High / Low
7	SAVE MODE	Power Saving mode	1:1	OFF / 1:1~1:4
8	SQL	RF Squelch	L3	L0~L9
9	SCRAMBLER	Scrambler	OFF	OFF / code1~code9
10	COMPANDOR	Compandor	OFF	ON / OFF
11	APO	Auto-power-off	OFF	OFF / 3min / 10min / 30min / 60min
12	TOT	Time-out-Timer	OFF	OFF / 30sec / 60sec / 120sec / 180sec
13	KEY BEEP	Key Beep	ON	ON / OFF
14	PTT BEEP	PTT Beep	OFF	ON / OFF
15	ROGERTONE	Roger tone	OFF	ON / OFF
16	Call Tone	Call Tone	Music 1	OFF / Music 1~Music9
17	SEND ID	PTT ID	OFF	ON / OFF
18	DEFAULT	Default		

1. **TSQ:** TSQ selectable, there are four items as below:
   (factory setting is OFF)
   OFF: Turn off TSQ and LCD screen shows as below:

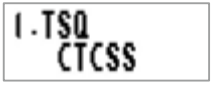


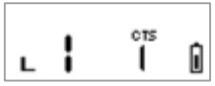


DCS: Turn on DCS and LCD screen shows as below:

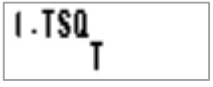


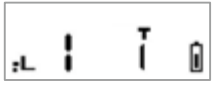
CTCSS: Turn on CTCSS and LCD screen shows as below:



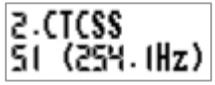


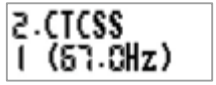
T: Turn on Tone, during transmission. LCD screen shows “T” as below:
LCD screen doesn’t show “T” during receiving.





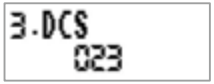
2. **CTCSS:** There are 51 codes of CTCSS as below table
   (factory setting is 1 (67.0Hz)) setting is 1 (67.0Hz))

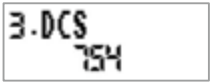




1	67.0	11	97.4	21	136.5	31	192.8	41	159.8
2	71.9	12	100.0	22	141.3	32	203.5	42	165.5
3	74.4	13	103.5	23	146.2	33	210.7	43	171.3
4	77.0	14	107.2	24	151.4	34	218.1	44	177.3
5	79.7	15	110.9	25	156.7	35	225.7	45	183.5
6	82.5	16	114.8	26	162.2	36	233.6	46	189.9
7	85.4	17	118.8	27	167.9	37	241.8	47	196.6
8	88.5	18	123.0	28	173.8	38	250.3	48	199.5
9	91.5	19	127.3	29	179.9	39	69.3	49	206.5
10	94.8	20	131.8	30	186.2	40	62.5	50	229.1
								51	254.1

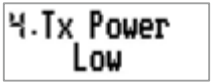
3. **DCS:** There are 81 codes of DCS as below table. (Factory setting is 023)

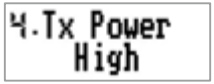




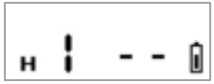
023	114	071	156	245	365	465	532	627
025	115	072	162	251	371	466	662	631
026	116	073	165	261	411	503	664	754
031	125	074	172	263	412	506	703	
032	131	174	315	265	413	516	712	
043	132	205	331	271	423	546	723	
047	134	223	343	306	431	565	731	
051	143	226	346	311	432	606	732	
054	152	243	351	445	632	612	734	
065	155	244	364	464	654	624	743	

4. **Tx Power:** TX power is selectable to Low or High (Factory setting is Low)

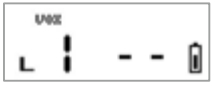




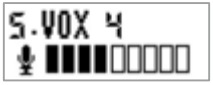
LCD Screen shows as below:



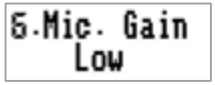
5. **VOX:** Volume / Sensitivity Adjustment (Factory setting is OFF) Turn on VOX and LCD screen shows “VOX” words as below:



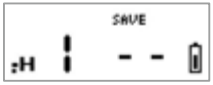
VOX’s sensitivity: VOX’s sensitivity can be selected from1-9 levels. VOX 4 is more sensitive than VOX9. VOX1 is least sensitive.



6. **Mic Gain:** Mic. Gain (Factory setting is Low)
   Adjust Mic. Gain to transmit a clear volume.



7. **Save Mode:** Power Saving Mode (Factory setting is 1:1)
   Turn on power saving mode could extend radio using time, LCD screen shows “Save” words as below:

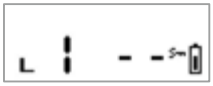


   Power save mode can be selected 1:1 – 1:4 and off. If power save mode is 1:4 then saving power is excellent.

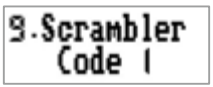
8. **SQL:** SQL Fine ADJ (factory setting is L3)
   SQL FINE adjustment, value from L0 (SQL OFF) to L9 as below:
   Too low volume might miss users’ attention.
   SQL factory setting is L3

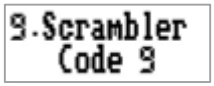
   SQL Min L0 & SQL Max L9

9. **Scrambler:** Scrambler (Factory setting is OFF)
   The radio sets 9 codes of scrambler to measure a radio signal securely. It can only be understand by someone who has special group at the same code. It can’t transmission and receiving without scrambler code.

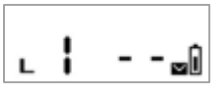


   There are 9 codes of scrambler from code 1 to code 9, as below:





10. **Compandor:** Compandor (Factory setting is OFF)
    The radio supports Compandor function. To turn on compandor are used in radio communication and in some noise reduction schemes.
    Please turn off this function if a radio doesn’t support this function.
    Turn on Compandor, LCD screen shows【 】as below:



11. **APO:** APO (factory setting is OFF)
    Choose 03/10/30/60 min. depending on your need. While 03 is selected, the radio automatically turns power off if none of the key is operated.
    LCD screen shows【APO】as bellows.

12. **TOT:** Time-out timer (Factory setting is OFF)
    Choose 30/60/120/180 depending on your need. Turn off “TOT”, the radio will be continuous transmission. While turn on “TOT” and choose 30 sec., push and hold PTT if continuous talk exceeds 20 sec. and radio will send out a beep sound.
    At the same time, LCD screen shows “ ” flash, the radio will stop transmission at time-out.
    LCD screen shows【TOT】words as below:

13. **KEY BEEP:** Factory setting is ON
    Turn on /off key beep button, LCD screen shows as below:

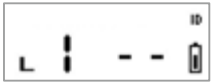
14. **PTT BEEP:** PTT melody (Factory setting is OFF)
    Turn on PTT Beep, while press PTT button a short beep will be sent out.

15. **ROGERTONE:** Roger Tone (Factory setting is OFF)
    Roger Tone is selectable to ON/OFF
    Beep tone will be heard at the end of the each transmission

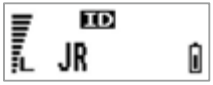
16. **CALL TONE:** Factory setting is Music 1
    While turn on call tone, temporarily press backlight button to transmission all member of group.
    There are 9 tones are selected.
    LCD screen shows as below:

    Turn On and select Music 1

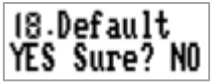
17. **SEND ID:** PTT ID (Factory setting is OFF)
    Turn on PTT ID, while release PTT, it will transmit PTT ID to all radio automatically. It provides talker’s ID and ID settings need to execute by software.
    LCD screen shows【ID】as below:

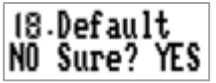


    While receiving others ID, LCD screen shows as below:



18. **DEFAULT:** Return to factory setting
    Follow LCD screen instruction and press “YES” to return to factory setting





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EXPERTISE

Expert Opinion of the Notified Body based on the Conformity Assessment according to Annex IV of the R&TTE Directive 1999/5/EC

Eurofins Product Service GmbH

EU Identification Number **0681**

recognized by

Bundesnetzagentur

BNetzA-kS-82/51-53

Registration Number:	**U9M21004-3131-C**
Certificate Holder:	**WINTEC CO., LTD.** **No. 716, 16F-3, Jung Jeng Rd., Chung Ho City 235** **Taipei Hsien, Taiwan, R.O.C.**
Model Name: Brand Name:	**MINI-46** **Wintec**
Product Description:	**Professional Radio**
Applied Standards:	Radio: EN 300296-1 V1.2.1 (02/2009), EN 300296-2 V1.2.1 (02/2009) EMC: EN 301489-1 V1.8.1 (04/2008), EN 301489-5 V1.3.1 (08/2002) Safety: EN 60065:2002 / A1:2006/A11:2008 Health: Not assessed

This certificate is issued in accordance with Annex IV of the R&TTE Directive 1999/5/EC of 9th March, 1999 and is only valid in conjunction with the following annex: - 1 -

Marking Example according to Article 12 of the R&TTE Directive: CE0681

Reichenwalde, 28. April, 2010
Ort, Ausstellungsdatum
Place, Date of Issue

Unterschrift von/Signed by Jörg Kuslg
Benannte Stelle/ Notified Body

Eurofins Product Service GmbH